

63377  
**SEARCH REQUEST FORM**

Requestor's Name: Lakshmi Channarayana Serial Number: 09/774,558  
Date: 3-28-02 Phone: 308-2438 Art Unit: 1615  
Location: CM1 2B05 (Mail box 2301)

**Search Topic:**

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

- ① Please search for the prostaglandin analog of Cl. 1.
- ② Pl. Search the derivative above in compositions such as cosmetic, hair, scalp, topical, Shampoo, hair conditioners, cream, lotion, gel, spray, eye, mascara, eye shadow, eye liner, etc.
- ③ Pl. Search ① or ② together with the following:
  - ④ = broad term: antandrogen, anti-inflammatory, etc. (see claims 25 of markush gp.)
- ④ Pl. Search ① or ② with the following:
  - gp. of Cl. 26

Claims attached

L. Channarayana

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4496  
jan.delaval@uspto.gov

**STAFF USE ONLY**

Date completed: 3/29/02  
Searcher: \_\_\_\_\_  
Terminal time: \_\_\_\_\_  
Elapsed time: \_\_\_\_\_  
CPU time: \_\_\_\_\_  
Total time: \_\_\_\_\_  
Number of Searches: \_\_\_\_\_  
Number of Databases: \_\_\_\_\_

Search Site  
\_\_\_\_ STIC  
\_\_\_\_ CM-1  
\_\_\_\_ Pre-S  
Type of Search  
\_\_\_\_ N.A. Sequence  
\_\_\_\_ A.A. Sequence  
\_\_\_\_ Structure  
\_\_\_\_ Bibliographic

Vendors  
\_\_\_\_ IG Suite  
\_\_\_\_ STN  
\_\_\_\_ Dialog  
\_\_\_\_ APS  
\_\_\_\_ Geninfo  
\_\_\_\_ SDC  
\_\_\_\_ DARC/Questel  
\_\_\_\_ Other

=> fil reg

FILE 'REGISTRY' ENTERED AT 07:10:08 ON 29 MAR 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3  
DICTIONARY FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

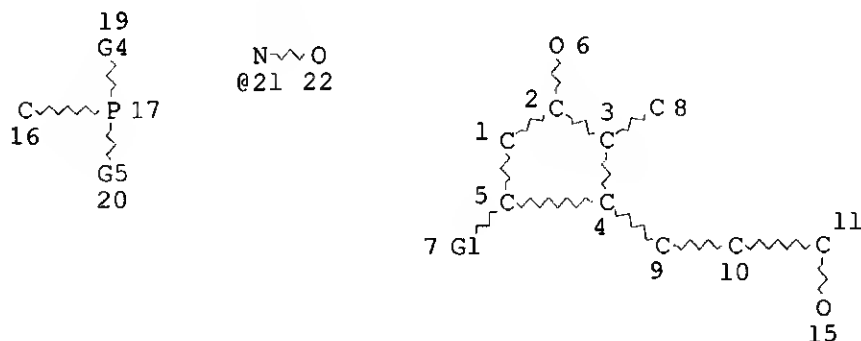
Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> d sta que 120

L18 STR



VAR G1=O/21

VAR G4=O/S

VAR G5=O/S/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L20 90 SEA FILE=REGISTRY SSS FUL L18

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
[jan.delaval@uspto.gov](mailto:jan.delaval@uspto.gov)

100.0% PROCESSED 92 ITERATIONS  
SEARCH TIME: 00.00.02

90 ANSWERS

=> d his

(FILE 'HCAPLUS' ENTERED AT 06:38:21 ON 29 MAR 2002)

DEL HIS  
E WO2001-US10369/AP, PRN  
L1 1 S E3  
L2 10544 S (PROC?(L)GAMB?)/PA,CS  
E DELONG M/AU  
L3 43 S E3,E4,E21-E25  
E DE LONG M/AU  
L4 5 S E7  
E MCIVER J/AU  
L5 54 S E3,E6,E16,E18,E19  
E MC IVER J/AU  
E MCMILLAN J/AU  
L6 30 S E3,E14,E42  
E MC MILLAN J/AU  
E YDUNGQUIST R/AU  
L7 82 S E3,E5,E6,E9,E11,E12

FILE 'REGISTRY' ENTERED AT 06:44:12 ON 29 MAR 2002

L8 STR  
L9 STR L8  
L10 3 S L9

FILE 'HCAPLUS' ENTERED AT 06:47:55 DN 29 MAR 2002

SEL RN L1

FILE 'REGISTRY' ENTERED AT 06:47:58 ON 29 MAR 2002

L11 51 S E1-E51  
L12 43 S L11 AND 16.127/RID  
L13 8 S L11 NOT L12  
E 16.127/RID  
L14 7268 S E3 AND P/ELS  
L15 STR L9  
L16 4 S L15 SAM SUB=L14  
L17 4 S L15  
L18 STR L15  
L19 4 S L18  
L20 90 S L18 FUL  
SAV L20 CHAN774/A TEMP  
L21 43 S L11 AND L20  
L22 47 S L20 NOT L21  
L23 13 S L22 AND (C22H33O6P OR C21H39D6P DR C19H35O5P OR C19H35O6P OR  
L24 34 S L22 NOT L23

FILE 'HCAOLD' ENTERED AT 07:07:20 ON 29 MAR 2002

L25 0 S L21  
L26 0 S L23  
L27 0 S L24

FILE 'HCAPLUS' ENTERED AT 07:07:28 ON 29 MAR 2002

L28 1 S L21  
L29 5 S L23  
L30 15 S L24  
L31 3 S L30 AND L28,L29  
L32 6 S L28,L29,L31  
L33 4 S L32 AND L1-L7  
L34 6 S L32,L33

FILE 'USPATFULL, USPAT2' ENTERED AT 07:09:17 DN 29 MAR 2002

L35 1 S L21  
L36 1 S L23  
L37 8 S L24  
L38 0 S L37 AND L35, L36  
L39 2 S L35, L36

FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:09:48 ON 29 MAR 2002  
L40 7 DUP REM L34 L39 (1 DUPLICATE REMOVED)

FILE 'REGISTRY' ENTERED AT 07:10:08 ON 29 MAR 2002

=> fil hcaplus uspatall  
FILE 'HCAPLUS' ENTERED AT 07:10:30 ON 29 MAR 2002  
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FILE 'USPATFULL' ENTERED AT 07:10:30 ON 29 MAR 2002  
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 07:10:30 ON 29 MAR 2002  
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l40 bib abs hitrn fhitrn retable tot

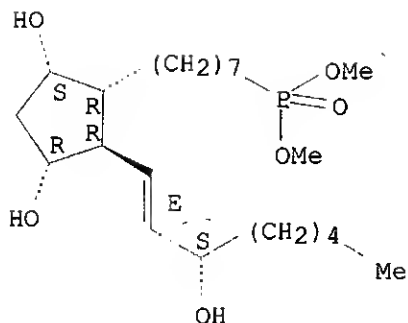
L40 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1  
AN 1980:58302 HCAPLUS  
DN 92:58302  
TI 1 and 2-Substituted analogs of certain prostaglandins  
IN Biddlecom, William G.; Kluender, Harold C.; Woessner, Warren D.  
PA Miles Laboratories, Inc., USA  
SO U.S., 40 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4171331	A	19791016	US 1978-912515	19780605
GI					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB App. 110 decarboxyprostaglandin analogs and intermediates for them were  
prepd. from the key compds. I (n = 6, 7) by appropriate modifications of  
conventional syntheses; extensive biol. activity tests (inhibition of  
platelet aggregation, and gastric secretion, antihypertensive and muscle  
relaxant activity) were carried out. Among the compds. prep'd. were II-V.  
IT 72488-21-2P 72489-45-3P  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. and biol. activity of)  
IT 72488-21-2P  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. and biol. activity of)  
RN 72488-21-2 HCAPLUS  
CN Phosphonic acid, [(9.alpha., 11.alpha., 13E, 15S)-9, 11, 15-trihydroxyprost-13-  
en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



L40 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2001:747564 HCAPLUS  
 DN 135:293970  
 TI Cosmetic and pharmaceutical compositions and methods using  
 2-decarboxy-2-phosphinico prostaglandin derivatives  
 IN Delong, Mitchell Anthony; Mciver, John Mcmillan;  
 Youngquist, Robert Scott  
 PA The Procter + Gamble Company, USA  
 SO PCT Int. Appl., 54 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

*Search report?*  
*references*

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001074314	A2	20011011	WO 2001-US10369	20010330 <--
	WO 2001074314	A3	20020221		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002013294	A1	20020131	US 2001-774558	20010131
PRAI	US 2000-193845P	P	20000331		
OS	MARPAT 135:293970				
AB	<p>Compns. contg. 2-decarboxy-2-phosphinico prostaglandin derivs. is described for treating hair loss in mammals. The compns. can be applied topically to the skin to arrest hair loss, reverse hair loss, and promote hair growth. Compns. contg. 2-decarboxy-2-phosphinico prostaglandin derivs. can also be used to lower intraocular pressure and treat bone disorders. A compn. comprises a prostaglandin analog, an activity enhancer, such as a hair growth stimulant and a penetration enhancer, and a sufficient amt. of a component selected from the group consisting of emollients, propellants, solvents, humectants, thickeners, powders, fragrances, water, alcs., aloe vera gel, allantoin, glycerin, vitamin A and E oils, mineral oil, propylene glycol, polypropylene glycol-2 myristyl propionate, di-Me isosorbide, and combinations thereof. For example, a compn. for topical administration was prepd. comprising (by wt.) a prostaglandin (IC50 = 114 nM) 1.14%, ethanol 59.32%, propylene glycol 19.77%, and di-Me isosorbide 19.77%. Also, a shampoo was made contg. ammonium lauryl sulfate 11.5%, ammonium laureth sulfate 4%, cocamide MEA 2%, ethylene glycol distearate 2%, cetyl alc. 2%, stearyl alc. 1.2%, glycerin 1%, sodium chloride 0.1%, sucrose polyesters of cottonate fatty acid 3%, sucrose polyesters of behenate fatty acid 2%, lauryl di-Me amine oxide 1.5%, DMDM hydantoin 0.15%, prostaglandin (IC = 150 nM) 0.15%, phenoxyethanol 0.5%, fragrance 0.5%, and water up to 100%. A tablet</p>				

formulation was also prepd. contg. a prostaglandin 5 mg, microcryst. cellulose 100 mg, sodium starch glycolate 30 mg, and magnesium stearate 3 mg per tablet. When administered orally once daily, the above compn. substantially increases bone vol. in a patient suffering from osteoporosis.

IT 365241-18-5P 365241-19-6P 365241-20-9P  
 365241-21-0P 365241-22-1P 365241-23-2P  
 365241-24-3P 365241-25-4P 365241-26-5P  
 365241-27-6P 365241-28-7P 365241-29-BP  
 365241-30-1P 365241-31-2P 365241-32-3P  
 365241-33-4P 365241-34-5P 365241-35-6P  
 365241-36-7P 365241-37-BP 365241-38-9P  
 365241-39-0P 365241-40-3P 365241-41-4P  
 365241-42-5P 365241-43-6P 365241-44-7P  
 365241-45-8P 365241-46-9P 365241-47-0P  
 365241-48-1P 365241-49-2P 365241-50-5P  
 365241-51-6P 365241-52-7P 365241-53-BP  
 365241-54-9P 365241-55-0P 365241-56-1P  
 365241-57-2P 365241-58-3P 365241-59-4P  
 365241-60-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cosmetic and pharmaceutical compns. contg. 2-decarboxy-2-phosphinico prostaglandin derivs.)

IT 365241-1B-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

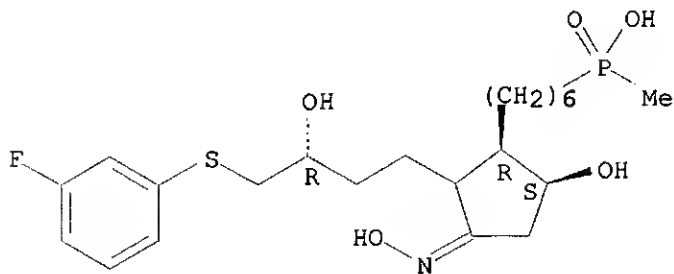
(cosmetic and pharmaceutical compns. contg. 2-decarboxy-2-phosphinico prostaglandin derivs.)

RN 365241-18-5 HCAPLUS

CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-[(3-fluorophenyl)thio]-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



L40 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:115155 HCAPLUS

DN 134:162868

TI Novel 2-decarboxy-2-phosphinico prostaglandin F analogs

IN Delong, Mitchell Anthony; Wos, John August; De, Biswanath; Ebetino, Frank Hallock

PA Procter & Gamble Company, USA

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

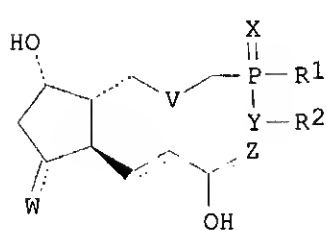
DT Patent

LA English

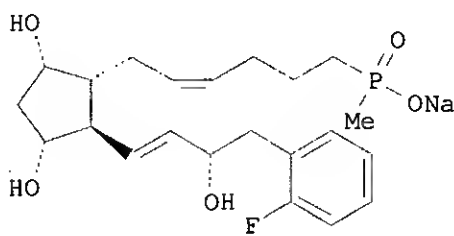
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001010873	A1	20010215	WO 2000-US20851	20000801
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-147132P	P	19990804		
OS	MARPAT 134:162868				
GI					

X  
 PCT ?  
 Search  
 report



I



II

AB Novel prostaglandin F analogs of formula I [R1 = H, alkyl; R2 = H, alkyl, heteroalkyl, carbocyclic ring; X = O, S; Y = O, S, NH; V = alkyl, heteroalkyl; W = OH, (substituted) NHOH; (substituted) NOH; Z = alkyl, heteroalkyl, alkyl-cycloalkyl, etc.] are prepd. This invention also includes optical isomers, diastereomers and enantiomers of the formula, and pharmaceutically-acceptable salts, biohydrolyzable amides, esters, and imides thereof. The compds. of the present invention are useful for the treatment of a variety of diseases and conditions, such as bone disorders and glaucoma. Accordingly, the invention further provides pharmaceutical compns. comprising these compds. The invention still further provides methods of treatment for bone disorders and glaucoma using these compds. or the compns. contg. them. Thus, II is prepd. and is used in tablets and liq. compns.

IT 325153-11-5P 325153-12-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of prostaglandin F analogs for the treatment of osteoporosis and glaucoma)

IT 325153-11-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

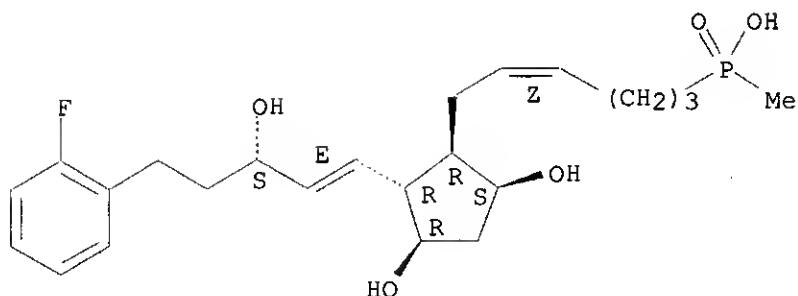
(prepn. of prostaglandin F analogs for the treatment of osteoporosis and glaucoma)

RN 325153-11-5 HCAPLUS

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-2-[(1E,3S)-5-(2-fluorophenyl)-3-hydroxy-1-pentenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



● Na

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Kende, A	1999	40	8189	TETRAHEDRON LETTERS	HCAPLUS
Kluender, H	1979	2	441	PROSTAGLANDINS MED	HCAPLUS
Liljebris, C	1995	38	289	JOURNAL OF MEDICINAL	HCAPLUS
The Procter & Gamble Co	1999			WO 9912895 A	HCAPLUS
The Procter & Gamble Co	1999			WO 9912896 A	HCAPLUS
The Procter & Gamble Co	1999			WO 9912898 A	HCAPLUS

L40 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:716927 HCAPLUS

DN 136:31838

TI Synthesis and biological evaluation of prostaglandin-F alkylphosphinic acid derivatives as bone anabolic agents for the treatment of osteoporosis

AU Soper, David L.; Milbank, Jared B. J.; Mieling, Glen E.; Dirr, Michelle J.; Kende, Andrew S.; Cooper, Robin; Jee, Webster S. S.; Yao, Wei; Chen, Jian Liang; Bodman, Mark; Lundy, Mark W.; De, Biswanath; Stella, Mark E.; Ebetino, Frank H.; Wang, Yili; de Long, Mitchell A.; Wos, John A.

CS Procter &amp; Gamble Pharmaceuticals, Mason, OH, 45040, USA

SO Journal of Medicinal Chemistry (2001), 44(24), 4157-4169

X

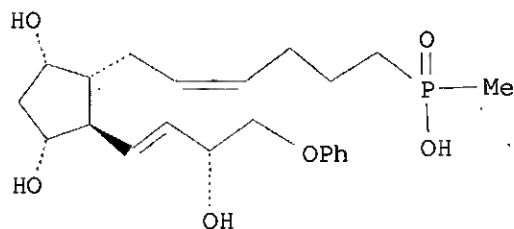
CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

GI



I

AB A series of novel C1 alkylphosphinic acid analogs of the prostaglandin-F family have been evaluated at the eight human prostaglandin receptors for potential use in the treatment of osteoporosis. Using mol. modeling as a tool for structure-based drug design, the authors have discovered that the phosphinic acid moiety (P(O)(OH)R) behaves as an isostere for the C1



carboxylic acid in the human prostaglandin FP binding assay in vitro and possesses enhanced hFP receptor selectivity when compared to the parent carboxylic acid. When evaluated in vivo, the Me phosphinic acid analog (I) produced a bone anabolic response in rats, returning bone mineral d. (BMD) to intact levels in the distal femur in the ovariectomized rat (OVX) model. These results suggest that prostaglandins of this class may be useful agents in the treatment of diseases assocd. with bone loss.

## IT 380153-29-7P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(synthesis and biol. evaluation of prostaglandin F alkylphosphinic acid derivs. as bone anabolic agents for treatment of osteoporosis)

## IT 252858-16-5P 380153-33-3P 380153-34-4P

380153-35-5P 380153-36-6P 380153-37-7P  
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthesis and biol. evaluation of prostaglandin F alkylphosphinic acid derivs. as bone anabolic agents for treatment of osteoporosis)

## IT 380153-32-2P 380153-41-3P 380153-42-4P

380153-43-5P 380153-44-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis and biol. evaluation of prostaglandin F alkylphosphinic acid derivs. as bone anabolic agents for treatment of osteoporosis)

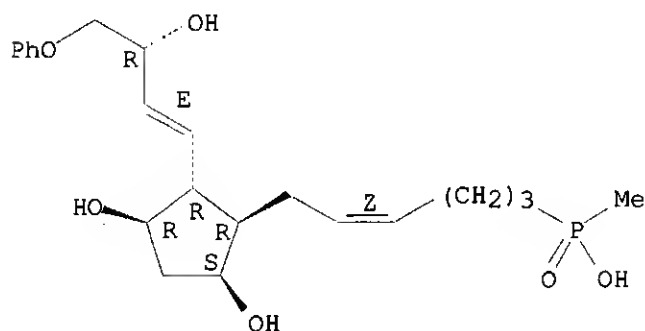
## IT 380153-29-7P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(synthesis and biol. evaluation of prostaglandin F alkylphosphinic acid derivs. as bone anabolic agents for treatment of osteoporosis)

## RN 380153-29-7 HCAPLUS

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Advanced Chemistry Deve				Using ACD/pKa DB S	
Barton, D	1985	41	13901	Tetrahedron	HCAPLUS
Barton, D	1983	24	14979	Tetrahedron Lett	HCAPLUS
Borah, B	2001	265	101	Anat Rec (New Anat)	MEDLINE
Bricklebank, N	1992		355	J Chem Soc, Chem Com	HCAPLUS
Cascierci, M	1996	21	521	Drugs Future	
Civitelli, R	1988	82	1268	J Clin Invest	MEDLINE

Corey, E	1981	22	3455	Tetrahedron Lett	HCAPLUS
Cummings, S	1990	252	163	Clin Orthop Relat Re	
deLong, M	2000	10	1519	Bioorg Med Chem Lett	HCAPLUS
Engel, R	1988		21	Synthesis of Carbon-	
Ericksen, E	1985	6	381	Bone	
Francis, R	1995	56	831	Curr Ther Res Clin E	HCAPLUS
Funk, C	1993	44	934	Mol Pharmacol	HCAPLUS
Furet, P	2000	10	2337	Bioorgan Med Chem Le	HCAPLUS
Gowen, M	2000	5	1	Emerging Drugs	HCAPLUS
GraphPad Software Inc	1999			The ED50 and 95% con	
Jee, W	1997	21	297	Bone	HCAPLUS
Jee, W	1983		101	Handbook of Bone Mor	
Ke, H	1998	23	249	Bone	HCAPLUS
Kende, A	1999	40	8189	Tetrahedron Lett	HCAPLUS
Liljebris, C	1995	38	289	J Med Chem	HCAPLUS
Liljebris, C	1996	61	4028	J Org Chem	HCAPLUS
Lindsay, R	1993	77	1535	J Clin Endocrinol Me	MEDLINE
Lopez, F	2000	4	383	Curr Opin Chem Biol	HCAPLUS
Ma, Y	1995	17	549	Bone	HCAPLUS
Machwate, M	2001	60	36	Mol Pharmacol	HCAPLUS
Melton, L	1995	10	175	J Bone Miner Res	
Mitlak, B	1997	48	155	Horm Res	HCAPLUS
Mohan, S	2000	27	471	Bone	HCAPLUS
Parfitt, A	1987	2	595	J Bone Miner Res	MEDLINE
Parfitt, A	1983	72	1396	J Clin Invest	MEDLINE
Peitsch, M	1996	4	161	Recept Channels	HCAPLUS
Procter & Gamble Pharma	2000			Taken in the part fr	
Resul, B	1993	36	243	J Med Chem	HCAPLUS
SAS Institute Inc	1996			SAS statistical soft	
Sandri, J	1992	22	2945	Synth Commun	HCAPLUS
Schaaf, T	1979	22	1340	J Med Chem	HCAPLUS
Schaaf, T	1981	24	1353	J Med Chem	HCAPLUS
Stjernschantz, J	1992	17	691	Drugs Future	
Turner, R	1994	15	275	Endocr Rev	HCAPLUS
Ueda, K	1980	97	834	J Pediatr	MEDLINE
Ueno, K	1985	6	79	Bone	HCAPLUS
Walker, C	2000	10	2343	Bioorgan Med Chem Le	HCAPLUS
Wang, Y	2000	48	1332	Chem Pharm Bull	HCAPLUS
Wang, Y	2000	43	945	J Med Chem	HCAPLUS

L40 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:719514 HCAPLUS

DN 132:49813

TI Prostaglandin phosphonic acids through homolytic halodecarboxylation of prostaglandins F1.alpha. and F2.alpha.

AU Kende, Andrew S.; Milbank, Jared B. J.; Ebetino, Frank H.; Delong, Mitchell A.

CS Department of Chemistry, University of Rochester, Rochester, NY, 14627, USA

SO Tetrahedron Lett. (1999), 40(47), 8189-8192

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

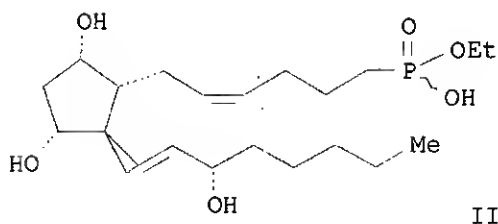
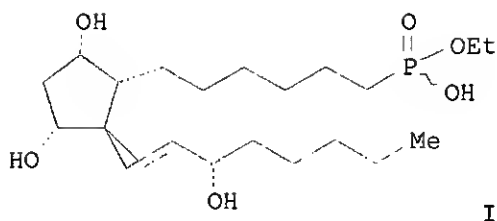
OS CASREACT 132:49813

GI

Q D 241.742

Adonis

Published  
19 Nov 1999  
11/19/99



AB Phosphonic acid derivs., e.g. I and II, of prostaglandins F1.alpha. and F2.alpha. were prepd. through Arbuzov reaction of 2-decarboxy-2-iodoprostaglandin intermediates. The intermediate iodo compds., which are potentially valuable for the synthesis of other analogs, were obtained from the parent prostaglandins by Barton's modification of the Hunsdiecker reaction.

IT 252858-11-0P 252858-14-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of prostaglandin phosphonic acids through homolytic  
halodecarboxylation of prostaglandins F1.alpha. and F2.alpha.)

IT 252858-12-1P 252858-16-5P 252858-17-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of prostaglandin phosphonic acids through homolytic  
halodecarboxylation of prostaglandins F1.alpha. and F2.alpha.)

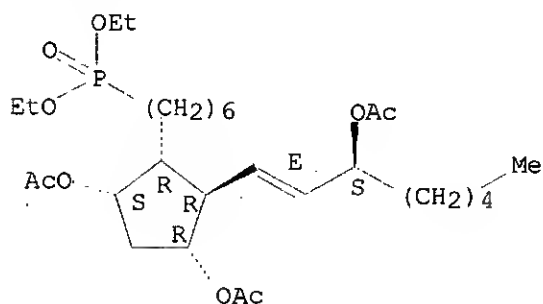
IT 252858-11-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of prostaglandin phosphonic acids through homolytic  
halodecarboxylation of prostaglandins F1.alpha. and F2.alpha.)

RN 252858-11-0 HCAPLUS

CN Phosphonic acid, [6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]hexyl]-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1982			New Synthetic Routes	

Barton, D	1985	41	3901	Tetrahedron	HCAPLUS
Barton, D	1983	24	4979	Tetrahedron Lett	HCAPLUS
Bindra, J	1977			Prostaglandin Synthe	
Collins, P	1993	93	1533	Chem Rev	HCAPLUS
Engel, R	1988		21	Synthesis of Carbon-	
Iguchi, Y	1975	40	521	J Org Chem	HCAPLUS
Johnson, R	1956	56	219	Chem Rev	HCAPLUS
Kluender, H	1979	2	441	Prostaglandins Med	HCAPLUS
Lincoln, F	1973	38	951	J Org Chem	HCAPLUS
McKenna, C	1977		155	Tetrahedron Lett	HCAPLUS
Tsanaktidis, J	1989	30	6967	Tetrahedron Lett	
Wilson, C	1957	9	332	Org React	

L40 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2002 ACS

AN 1981:191740 HCAPLUS

DN 94:191740

TI The synthesis of dimethylphosphonoprostaglandin analogs

AU Kluender, Harold C.; Woessner, Warren

CS Miles Lab., Inc., Madison, WI, 53704, USA

SO Prostaglandins Med. (1979), 2(6), 441-4

CODEN: PROMDL; ISSN: 0161-4630

DT Journal

LA English

AB Several known title compds. were prepd. conventionally.

IT 77493-13-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and deprotection of)

IT 72488-21-2P 72489-45-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

IT 77493-13-1P

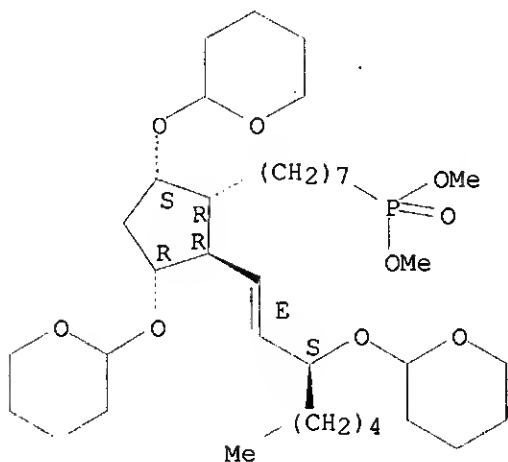
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and deprotection of)

RN 77493-13-1 HCAPLUS

CN Phosphonic acid, [(9.alpha.,11.alpha.,13E,15S)-9,11,15-tris[(tetrahydro-2H-pyran-2-yl)oxy]prost-13-en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



L40 ANSWER 7 OF 7 USPATFULL

AN 2002:22458 USPATFULL

TI Cosmetic and pharmaceutical compositions and methods using  
2-decarboxy-2-phosphinico derivatives

IN DeLong, Mitchell Anthony, West Chester, OH, UNITED STATES

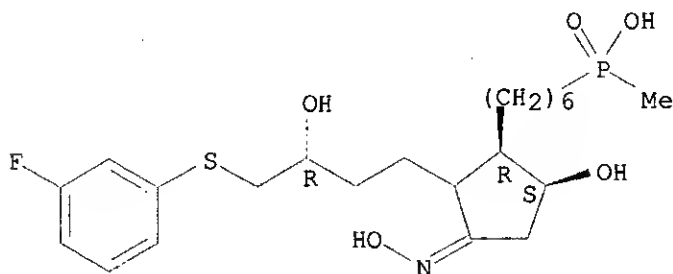
McIver, John McMillan, Cincinnati, OH, UNITED STATES

Youngquist, Robert Scott, Mason, OH, UNITED STATES  
 PI US 2002013294 A1 20020131  
 AI US 2001-774558 A1 20010131 (9)  
 PRAI US ~~2000-193845P~~ 20000331 (60)  
 DT Utility  
 FS APPLICATION  
 LREP THE PROCTER & GAMBLE COMPANY, PATENT DIVISION, IVORYDALE TECHNICAL  
 CENTER - BOX 474, 5299 SPRING GROVE AVENUE, CINCINNATI, OH, 45217  
 CLMN Number of Claims: 30  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 1847  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB A method for treating hair loss in mammals uses compositions containing  
 2-decarboxy-2-phosphinico prostaglandin derivatives. The compositions  
 can be applied topically to the skin. The compositions can arrest hair  
 loss, reverse hair loss, and promote hair growth. Compositions  
 containing 2-decarboxy-2-phosphinico prostaglandin derivatives can also  
 be used to lower intraocular pressure and treat bone disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 365241-18-5P 365241-19-6P 365241-20-9P  
 365241-21-0P 365241-22-1P 365241-23-2P  
 365241-24-3P 365241-25-4P 365241-26-5P  
 365241-27-6P 365241-28-7P 365241-29-8P  
 365241-30-1P 365241-31-2P 365241-32-3P  
 365241-33-4P 365241-34-5P 365241-35-6P  
 365241-36-7P 365241-37-8P 365241-38-9P  
 365241-39-0P 365241-40-3P 365241-41-4P  
 365241-42-5P 365241-43-6P 365241-44-7P  
 365241-45-8P 365241-46-9P 365241-47-0P  
 365241-48-1P 365241-49-2P 365241-50-5P  
 365241-51-6P 365241-52-7P 365241-53-8P  
 365241-54-9P 365241-55-0P 365241-56-1P  
 365241-57-2P 365241-58-3P 365241-59-4P  
 365241-60-7P  
 (cosmetic and pharmaceutical compns. contg. 2-decarboxy-2-phosphinico  
 prostaglandin derivs.)  
 IT 365241-18-5P  
 (cosmetic and pharmaceutical compns. contg. 2-decarboxy-2-phosphinico  
 prostaglandin derivs.)  
 RN 365241-18-5 USPATFULL  
 CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-[(3-fluorophenyl)thio]-3-  
 hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



=> fil reg

FILE 'REGISTRY' ENTERED AT 07:11:06 ON 29 MAR 2002  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3  
DICTIONARY FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> s 121 or 123  
L41 56 L21 OR L23

=> d his 141-

(FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:09:48 ON 29 MAR 2002)

FILE 'REGISTRY' ENTERED AT 07:10:08 ON 29 MAR 2002

FILE 'HCAPLUS, USPATFULL, USPAT2' ENTERED AT 07:10:30 ON 29 MAR 2002

FILE 'REGISTRY' ENTERED AT 07:11:06 ON 29 MAR 2002  
L41 56 S L21 OR L23

FILE 'HCAPLUS' ENTERED AT 07:11:52 ON 29 MAR 2002  
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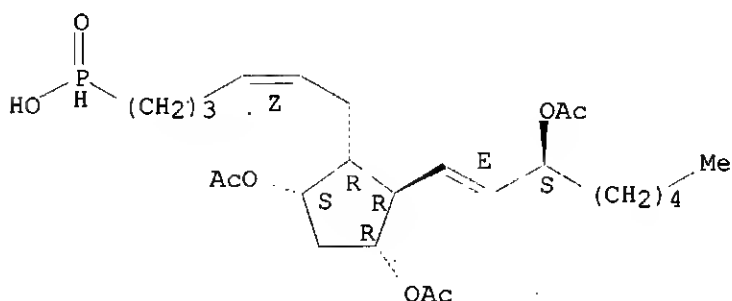
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L42 64 S E1-E64  
L43 8 S L42 NOT L41

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L42 ANSWER 1 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 380153-44-6 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(  
(acetyloxy)-1-octenyl)cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C25 H41 O8 P  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 2 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-43-5 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]butyl-, ethyl ester (9CI)  
(CA INDEX NAME)

FS STEREOSEARCH

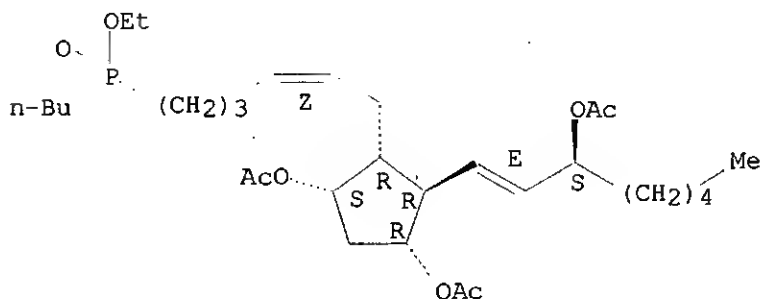
MF C31 H53 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 3 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-42-4 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]ethyl-, ethyl ester (9CI)  
(CA INDEX NAME)

FS STEREOSEARCH

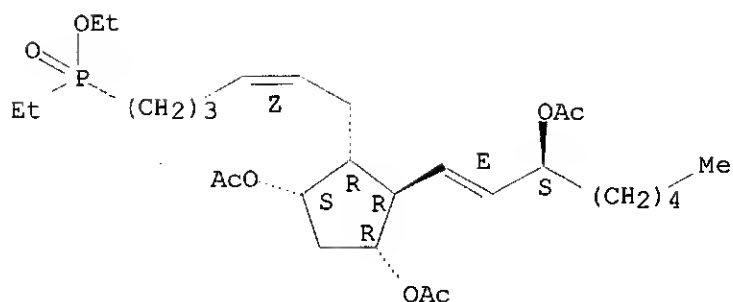
MF C29 H49 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 4 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-41-3 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]methyl-, ethyl ester (9CI)  
(CA INDEX NAME)

FS STEREOSEARCH

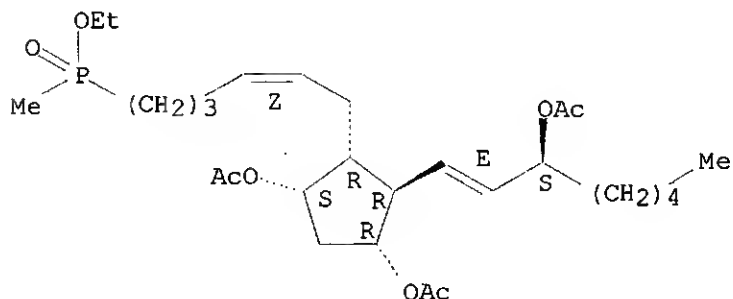
MF C28 H47 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 5 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-37-7 REGISTRY

CN Phosphinic acid, butyl[(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H43 O5 P

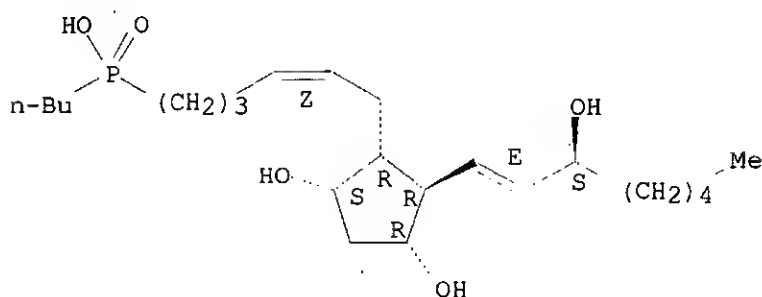
SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 6 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-36-6 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]ethyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

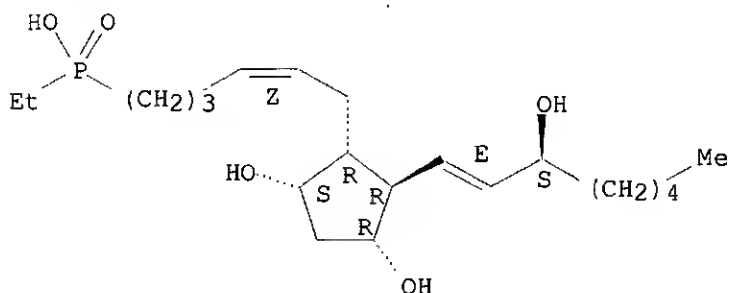
MF C21 H39 O5 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 7 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-35-5 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

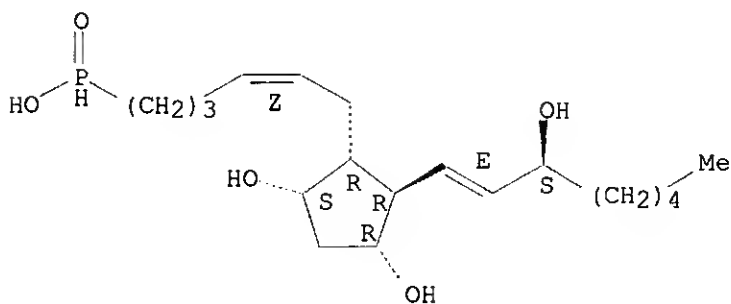
MF C19 H35 O5 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 8 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-34-4 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

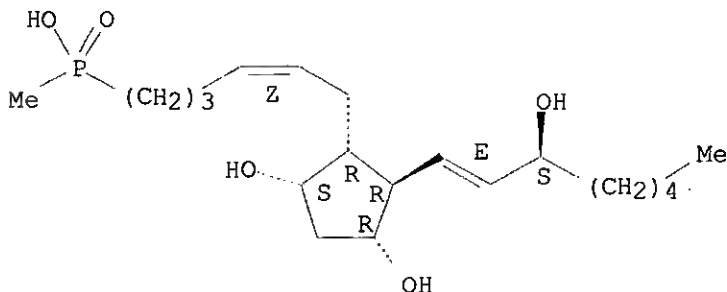
MF C20 H37 O5 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 9 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-33-3 REGISTRY

CN Phosphonic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C19 H35 O6 P

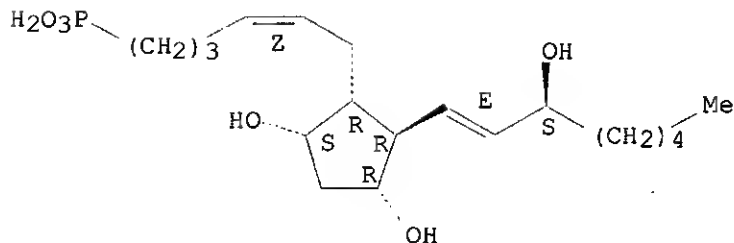
CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 10 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-32-2 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[(1E,3R)-3-[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl)methyl-, ethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

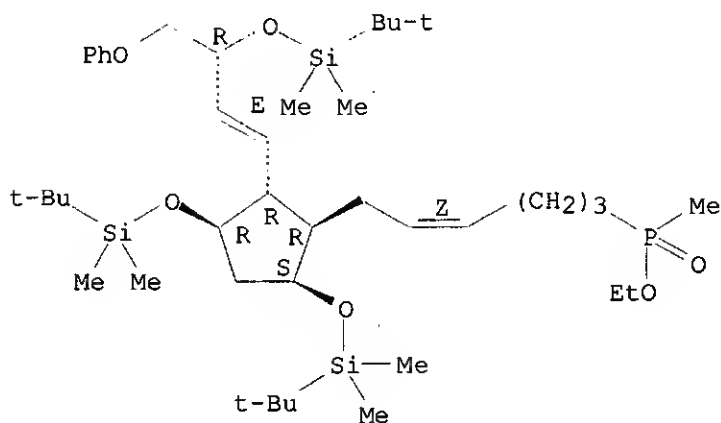
MF C42 H79 O6 P Si3

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 11 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 380153-29-7 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl)methyl- (9CI) (CA INDEX NAME)

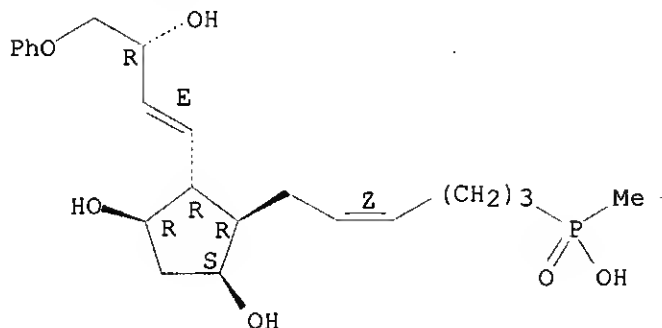
FS STEREOSEARCH

MF C22 H33 O6 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.



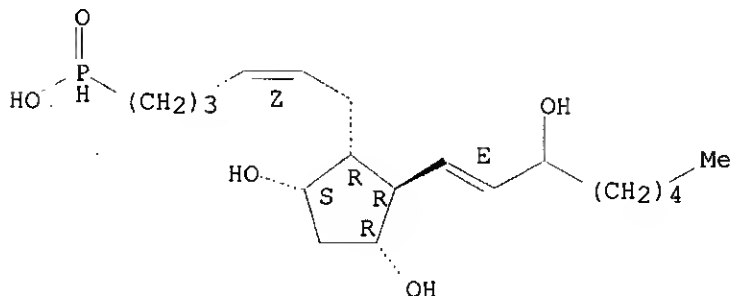
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L42 ANSWER 12 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-60-7 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C19 H35 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as shown.



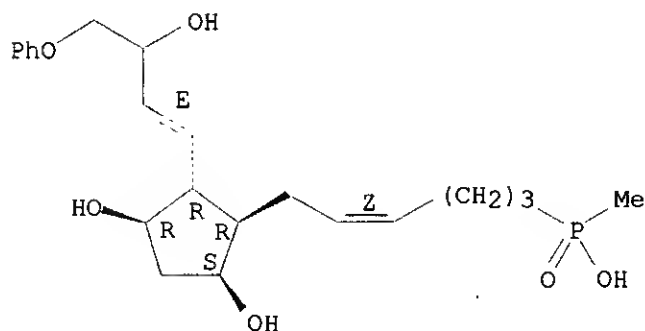
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 13 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-59-4 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E)-3-hydroxy-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H33 O6 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.



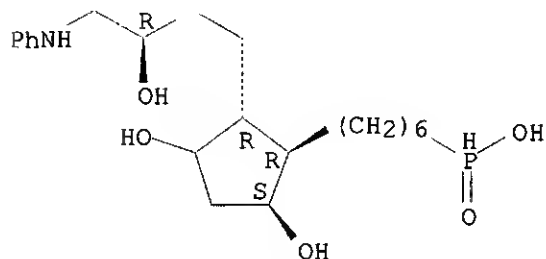
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 14 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-58-3 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-4-(phenylamino)butyl]cyclopentyl]hexyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C21 H36 N O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

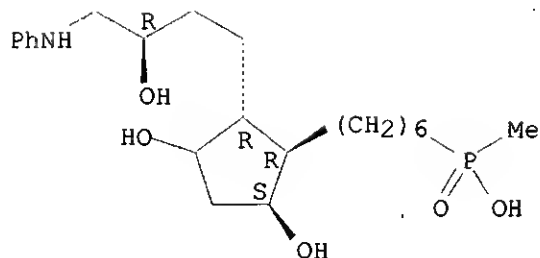


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 15 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-57-2 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-4-(phenylamino)butyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H38 N O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



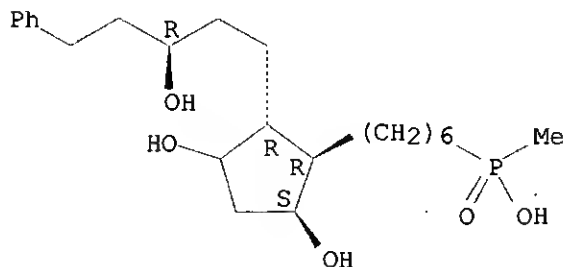
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 16 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-56-1 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-5-phenylpentyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H39 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



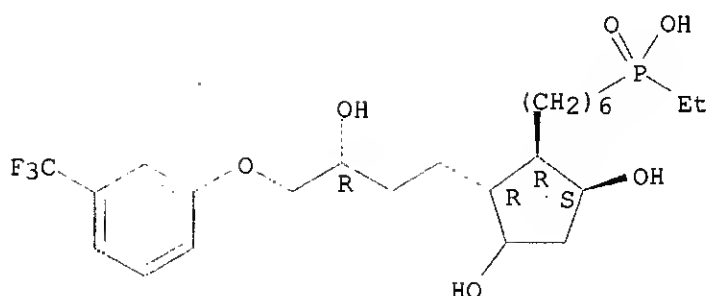
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 17 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-55-0 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-4-[3-(trifluoromethyl)phenoxy]butyl]cyclopentyl]hexyl]ethyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H38 F3 O6 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



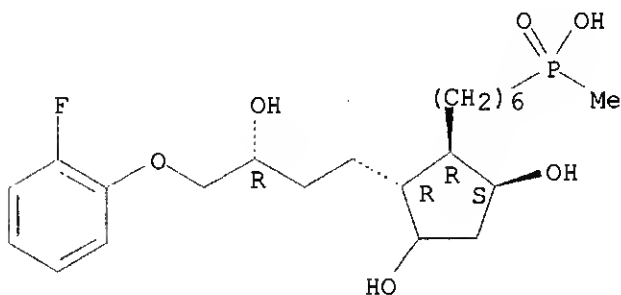
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 18 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-54-9 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-2-[(3R)-4-(2-fluorophenoxy)-3-hydroxybutyl]-3,5-dihydroxycyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H36 F O6 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



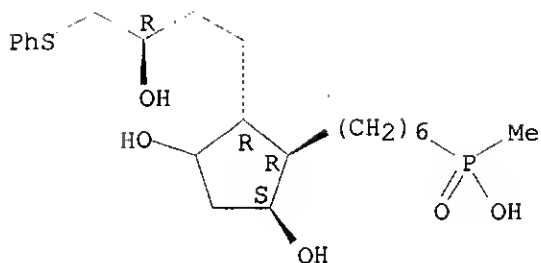
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 19 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-53-8 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-4-(phenylthio)butyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H37 O5 P S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



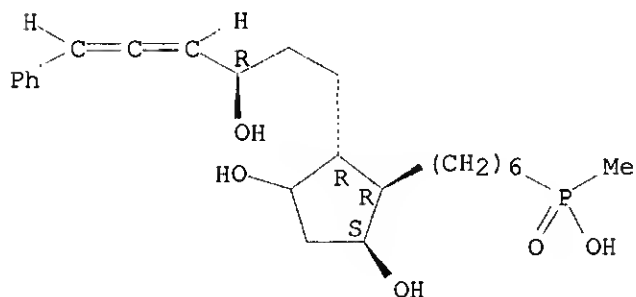
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 20 OF 64 REGISTRY COPYRIGHT 2002 ACS .  
RN 365241-52-7 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-6-phenyl-4,5-hexadienyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H37 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

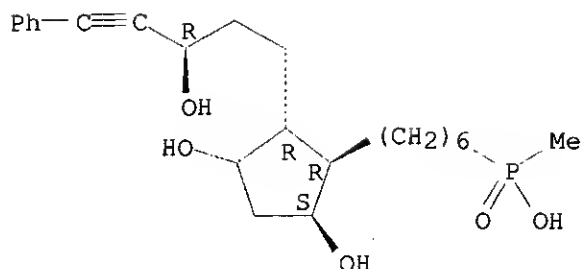
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE) :

REFERENCE 1: 135:293970

L42 ANSWER 21 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-51-6 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-5-phenyl-4-pentynyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H35 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.





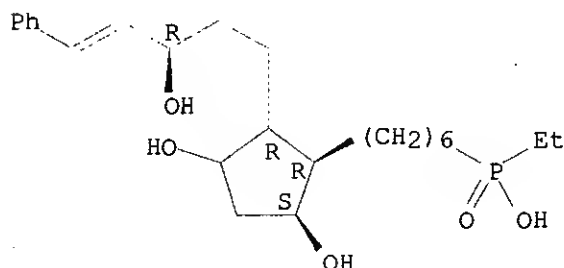
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 22 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-50-5 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-5-phenyl-4-pentenyl]cyclopentyl]hexyl]ethyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H39 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry unknown.



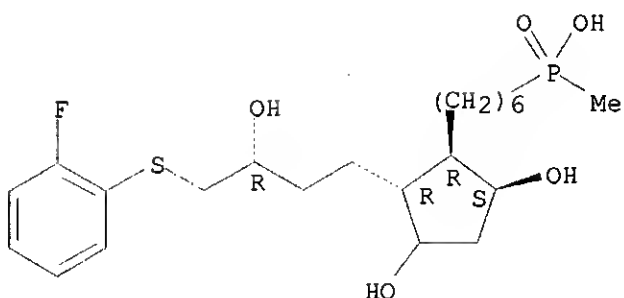
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 23 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-49-2 REGISTRY  
CN Phosphinic acid, [6-[(1R,2R,5S)-2-[(3R)-4-[(2-fluorophenyl)thio]-3-hydroxybutyl]-3,5-dihydroxycyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H36 F O5 P S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



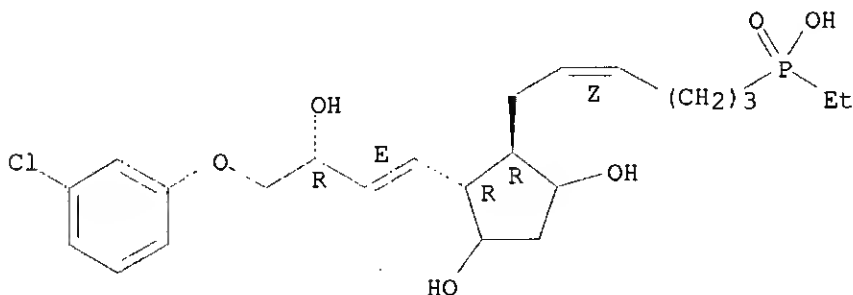
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 24 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-48-1 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3R)-4-(3-chlorophenoxy)-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]ethyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H34 Cl O6 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL .

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

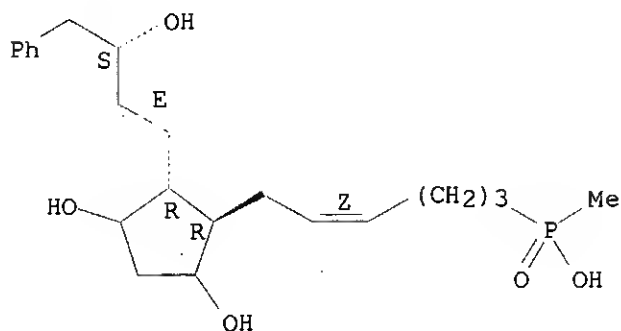
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 25 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-47-0 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-4-phenyl-1-butenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H33 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.



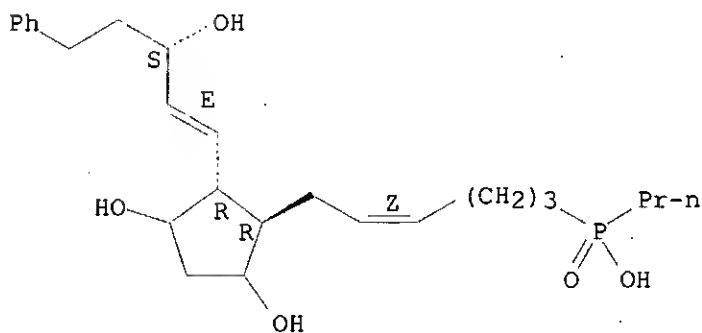
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 26 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-46-9 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-5-phenyl-1-pentenyl]cyclopentyl]-4-hexenyl]propyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C25 H39 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

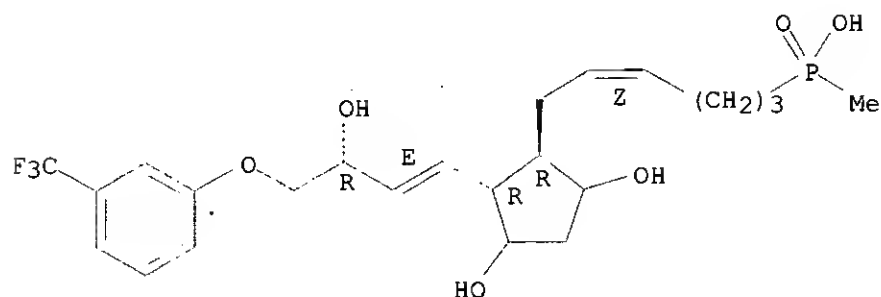
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 27 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-45-8 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-[3-(trifluoromethyl)phenoxy]-1-butenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H32 F3 O6 P  
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as shown.



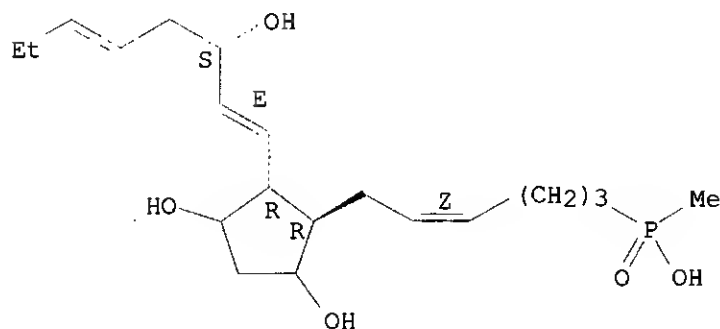
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 28 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-44-7 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1,5-octadienyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C20 H35 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as described by E or Z.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

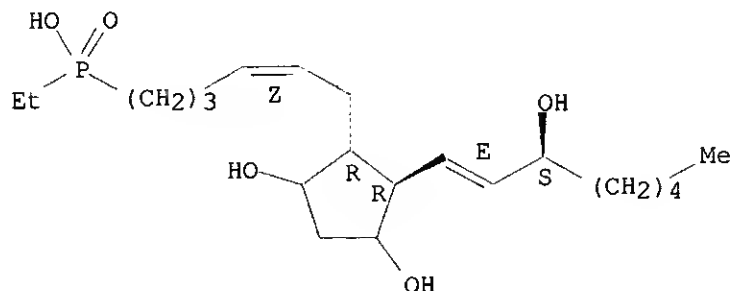
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 29 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-43-6 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]ethyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C21 H39 O5 P

SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as shown.



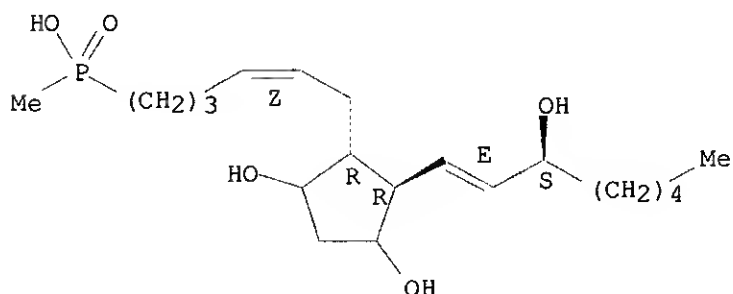
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 30 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-42-5 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C20 H37 O5 P  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

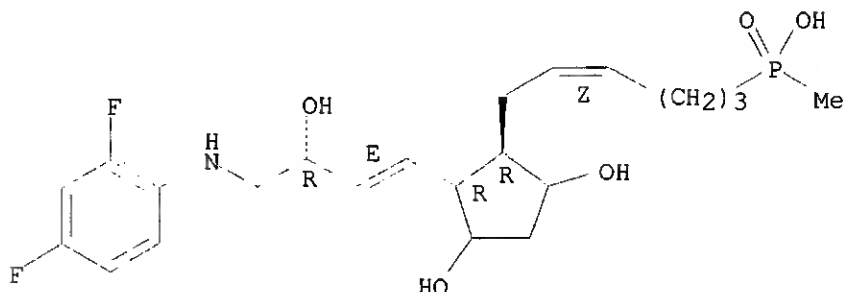
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 31 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-41-4 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3R)-4-[(2,4-difluorophenyl)amino]-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH

MF C22 H32 F2 N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



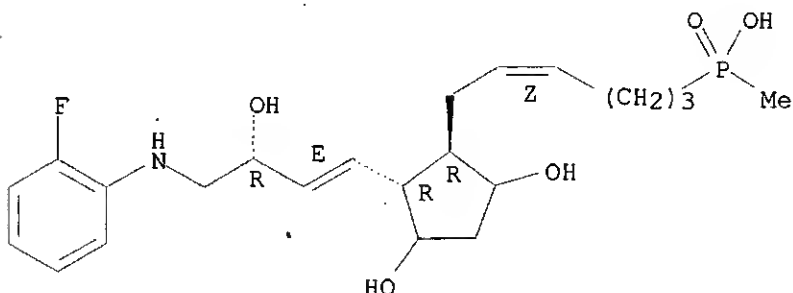
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 32 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-40-3 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3R)-4-[(2-fluorophenyl)amino]-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H33 F N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

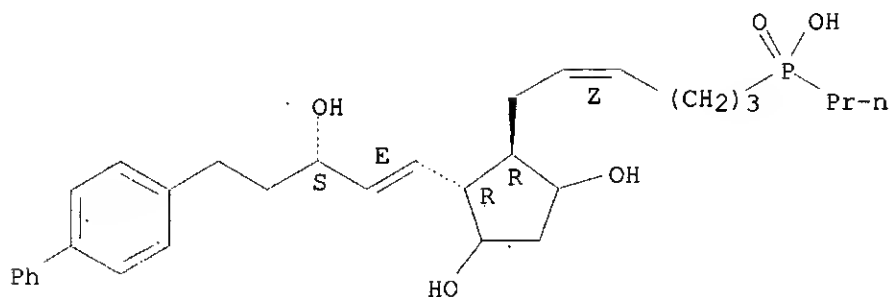
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 33 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-39-0 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3S)-5-[1,1'-biphenyl]-4-yl-3-hydroxy-1-pentenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]propyl- (9CI) (CA

INDEX NAME)  
 FS STEREOSEARCH  
 MF C31 H43 O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



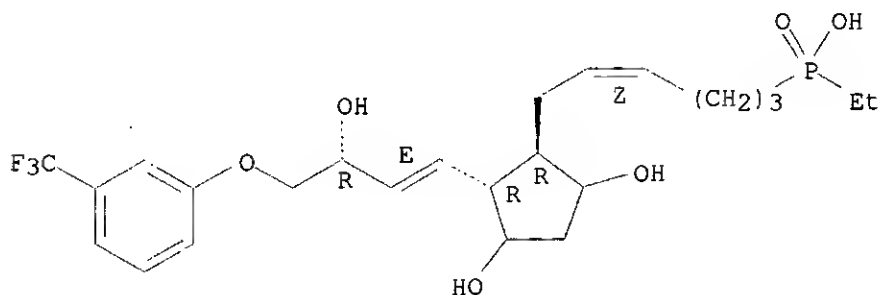
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 34 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-38-9 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-[3-(trifluoromethyl)phenoxy]-1-butenyl]cyclopentyl]-4-hexenyl]ethyl- (9CI)  
 (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H34 F3 O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

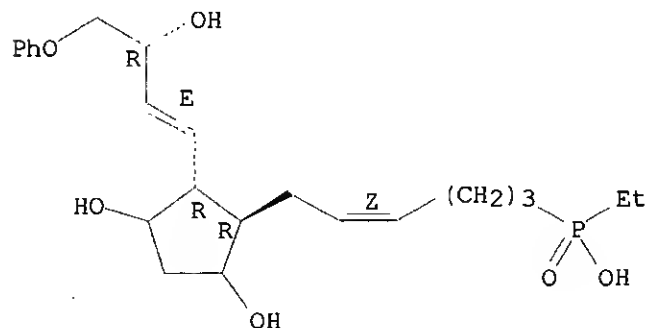
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 35 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-37-8 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl]ethyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H35 O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



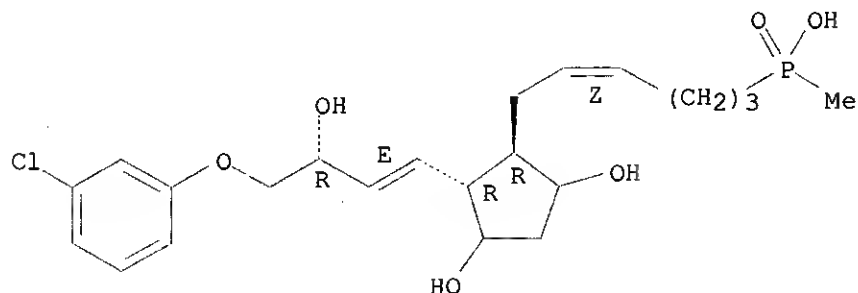
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 36 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-36-7 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3R)-4-(3-chlorophenoxy)-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H32 Cl O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

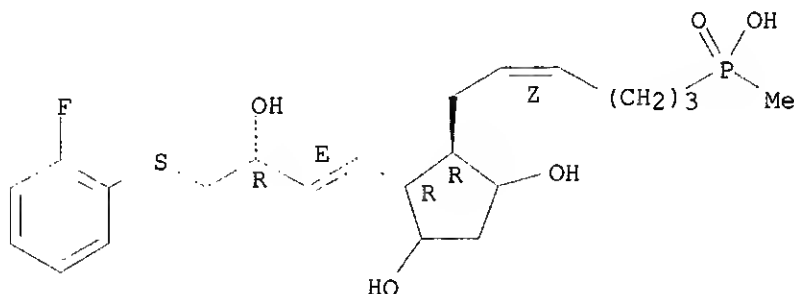
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970



L42 ANSWER 37 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-35-6 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3R)-4-[(2-fluorophenyl)thio]-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H32 F O5 P S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



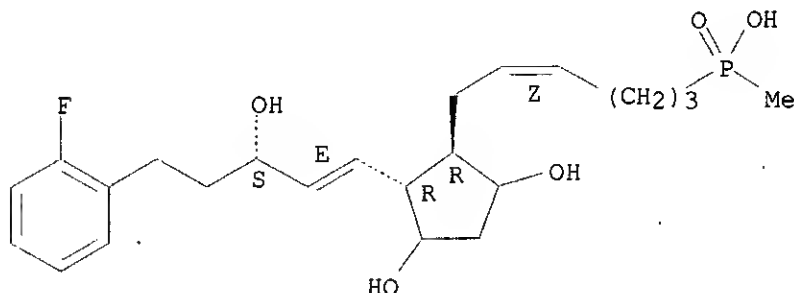
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 38 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-34-5 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R)-2-[(1E,3S)-5-(2-fluorophenyl)-3-hydroxy-1-pentenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H34 F O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 39 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-33-4 REGISTRY

CN Phosphinic acid, [6-[(1R,2R,5S)-2-[4-[(2-fluorophenyl)thio]-3-hydroxybutyl]-5-hydroxy-3-(hydroxyamino)cyclopentyl]hexyl](1-methylethyl)-(9CI) (CA INDEX NAME)

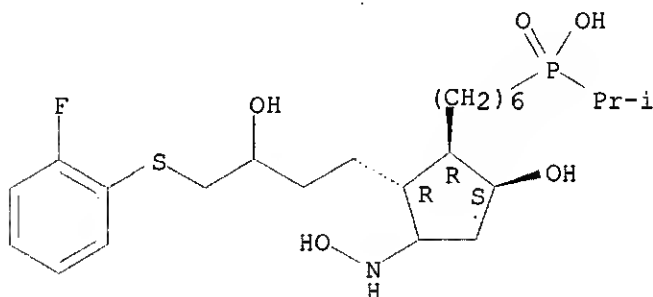
FS STEREOSEARCH

MF C24 H41 F N O5 P S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 40 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-32-3 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,5S)-2-[(1E)-4-[(4,5-dichloro-2-thienyl)thio]-3-hydroxy-1-butenyl]-5-hydroxy-3-(hydroxyamino)cyclopentyl]-4-hexenyl]ethyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

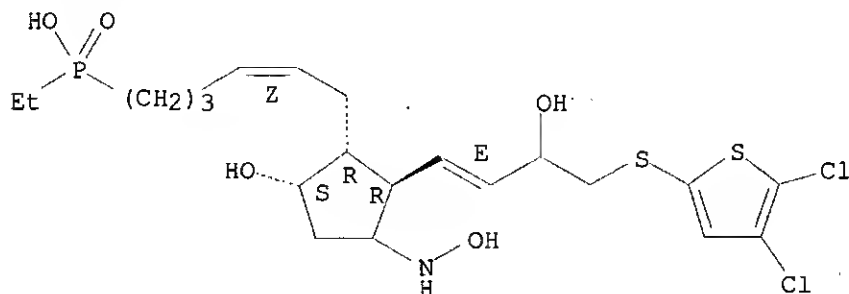
MF C21 H32 Cl2 N O5 P S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

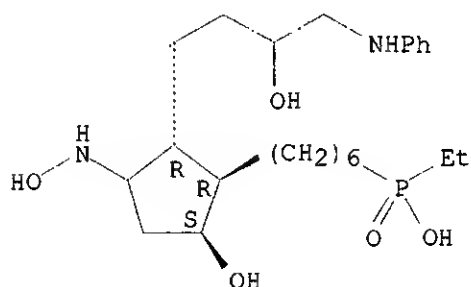
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 41 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-31-2 REGISTRY  
 CN Phosphinic acid, ethyl[6-[(1R,2R,5S)-5-hydroxy-3-(hydroxyamino)-2-[3-hydroxy-4-(phenylamino)butyl]cyclopentyl]hexyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H41 N2 O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



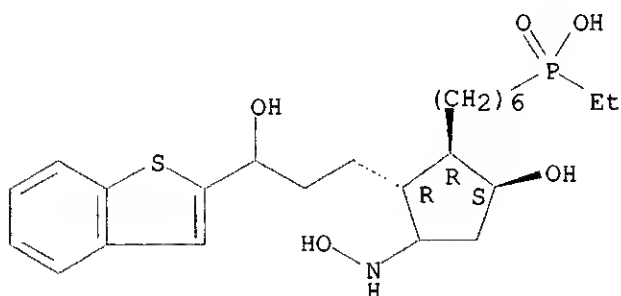
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 42 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-30-1 REGISTRY  
 CN Phosphinic acid, [6-[(1R,2R,5S)-2-(3-benzo[b]thien-2-yl-3-hydroxypropyl)-5-hydroxy-3-(hydroxyamino)cyclopentyl]hexyl]ethyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H38 N O5 P S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



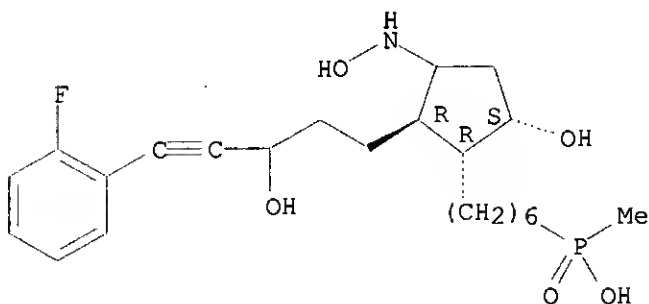
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 43 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-29-8 REGISTRY  
 CN Phosphinic acid, [6-[(1R,2R,5S)-2-[5-(2-fluorophenyl)-3-hydroxy-4-pentynyl]-5-hydroxy-3-(hydroxyamino)cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H35 F N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



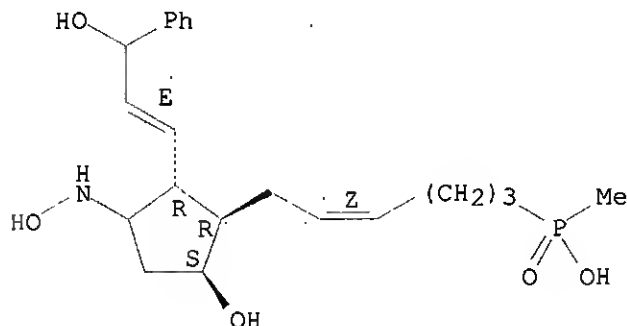
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 44 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-28-7 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R,5S)-5-hydroxy-3-(hydroxyamino)-2-[(1E)-3-hydroxy-3-phenyl-1-propenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H32 N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 45 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-27-6 REGISTRY

CN Phosphinic acid, butyl[6-[(1R,5S)-2-[(3R)-5-(2-fluorophenyl)-3-hydroxy-4-pentynyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

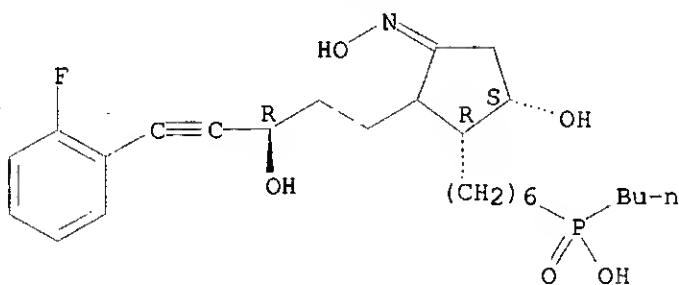
MF C26 H39 F N O5 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 46 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-26-5 REGISTRY

CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-(benzo[b]thien-3-ylthio)-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]ethyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

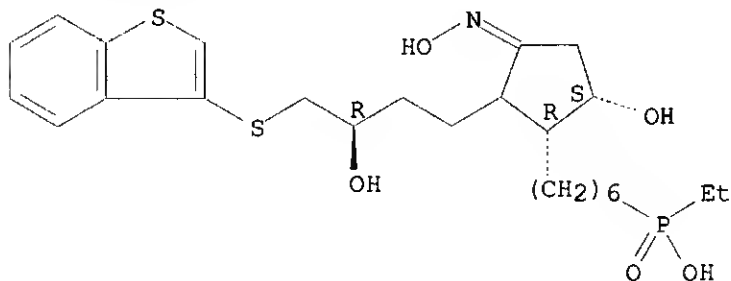
MF C25 H38 N O5 P S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 47 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-25-4 REGISTRY

CN Phosphinic acid, [6-[(1R,5S)-5-hydroxy-2-[(3S)-3-hydroxyoctyl]-3-(methoxyimino)cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

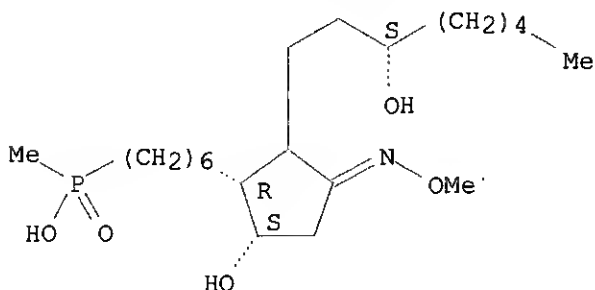
MF C21 H42 N O5 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 48 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-24-3 REGISTRY

CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-[(2,4-difluorophenyl)amino]-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

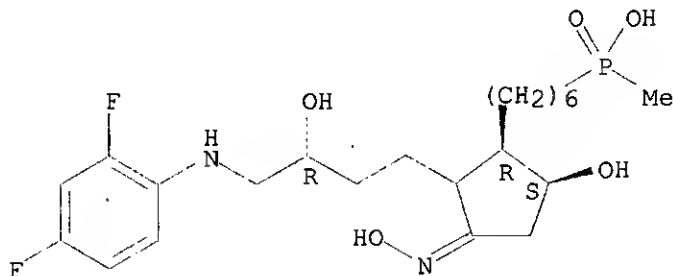
MF C22 H35 F2 N2 O5 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

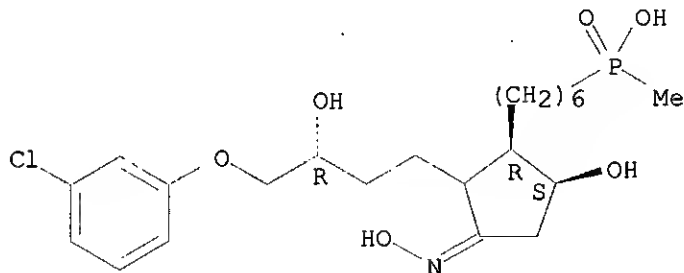
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 49 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-23-2 REGISTRY  
 CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-(3-chlorophenoxy)-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H35 Cl N O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



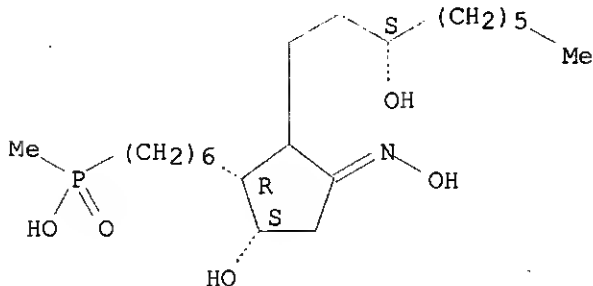
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 50 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-22-1 REGISTRY  
 CN Phosphinic acid, [6-[(1R,5S)-5-hydroxy-3-(hydroxyimino)-2-[(3S)-3-hydroxynonyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H42 N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

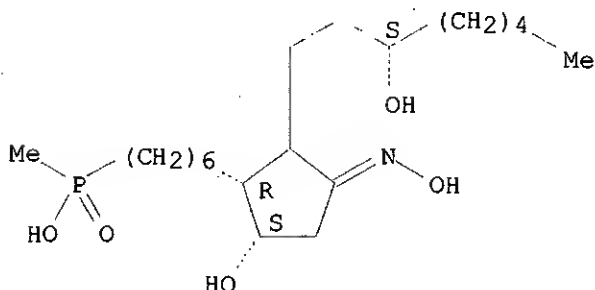
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 51 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 365241-21-0 REGISTRY  
 CN Phosphinic acid, [6-[(1R,5S)-5-hydroxy-3-(hydroxyimino)-2-[(3S)-3-hydroxyoctyl]cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C20 H40 N O5 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



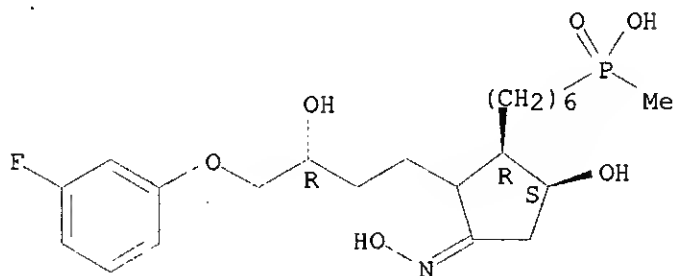
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 52 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-20-9 REGISTRY  
 CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-(3-fluorophenoxy)-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H35 F N O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

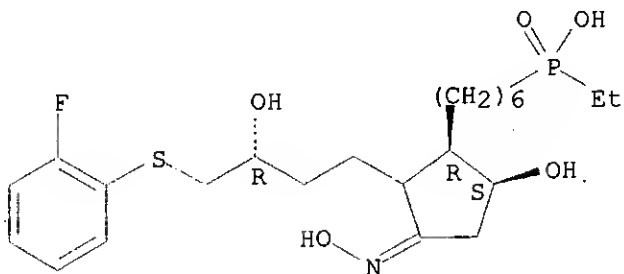
L42 ANSWER 53 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 365241-19-6 REGISTRY  
 CN Phosphinic acid, ethyl[6-[(1R,5S)-2-[(3R)-4-[(2-fluorophenyl)thio]-3-



hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]- (9CI) (CA  
INDEX NAME)

FS STEREOSEARCH  
MF C23 H37 F N O5 P S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry unknown.



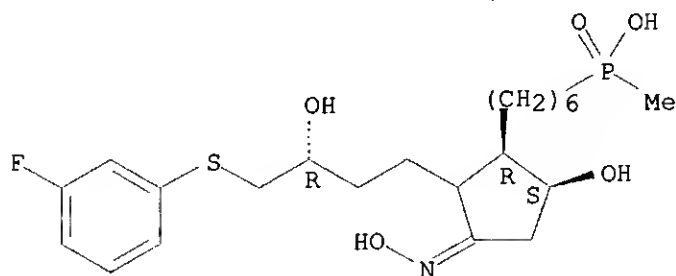
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:293970

L42 ANSWER 54 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 365241-18-5 REGISTRY  
CN Phosphinic acid, [6-[(1R,5S)-2-[(3R)-4-[(3-fluorophenyl)thio]-3-hydroxybutyl]-5-hydroxy-3-(hydroxyimino)cyclopentyl]hexyl]methyl- (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C22 H35 F N O5 P S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
Double bond geometry unknown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

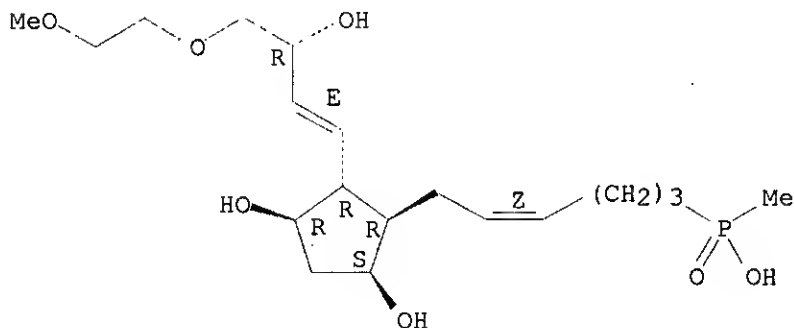
REFERENCE 1: 135:293970

L42 ANSWER 55 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 325153-12-6 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-

4-(2-methoxyethoxy)-1-butenyl]cyclopentyl]-4-hexenyl]methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH  
MF C19 H35 O7 P  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.



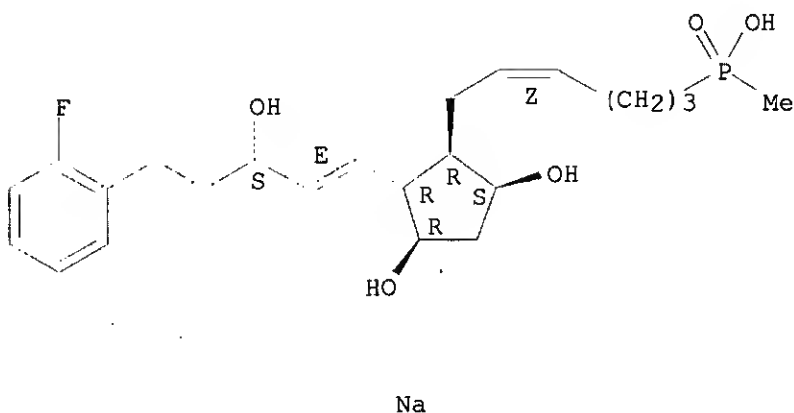
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:162868

L42 ANSWER 56 OF 64 REGISTRY COPYRIGHT 2002 ACS  
RN 325153-11-5 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-2-[(1E,3S)-5-(2-fluorophenyl)-3-hydroxy-1-pentenyl]-3,5-dihydroxycyclopentyl]-4-hexenyl]methyl-, monosodium salt (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H34 F O5 P . Na  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.

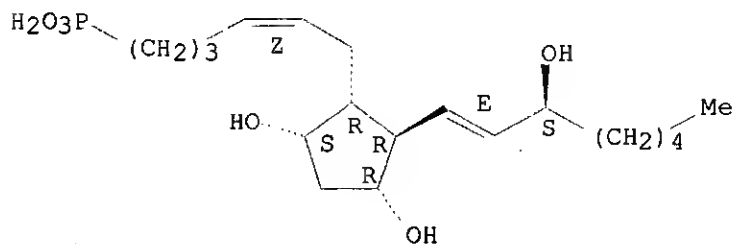


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:162868

L42 ANSWER 57 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 252858-17-6 REGISTRY  
 CN Phosphonic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]-, disodium salt (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H35 O6 P . 2 Na  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT  
 CRN (380153-33-3)

Absolute stereochemistry.  
 Double bond geometry as shown.



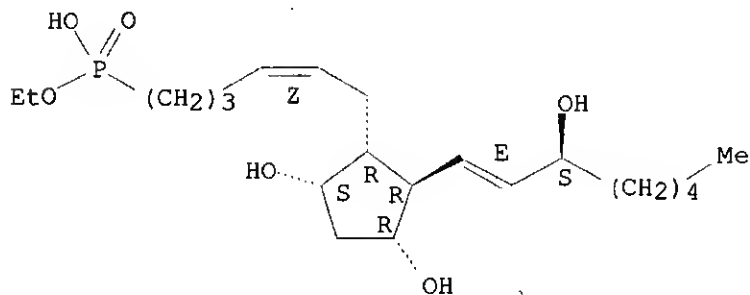
● 2 Na

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

L42 ANSWER 58 OF 64 REGISTRY COPYRIGHT 2002 ACS  
 RN 252858-16-5 REGISTRY  
 CN Phosphonic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]-4-hexenyl]-, monoethyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H39 O6 P  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

REFERENCE 2: 132:49813

L42 ANSWER 59 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 252858-14-3 REGISTRY

CN Phosphonic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]-, diethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

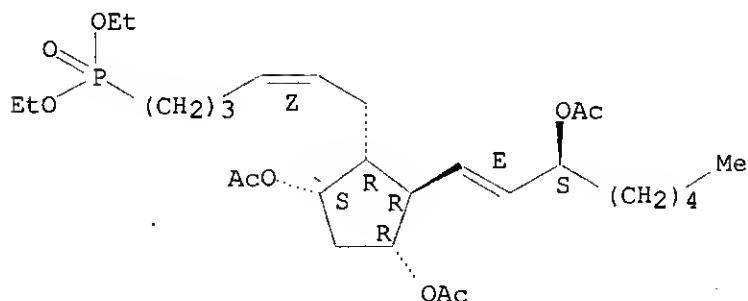
MF C29 H49 O9 P

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

L42 ANSWER 60 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 252858-12-1 REGISTRY

CN Phosphonic acid, [6-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-1-octenyl]cyclopentyl]hexyl]-, monoethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

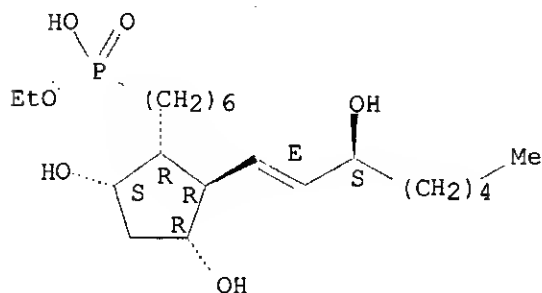
MF C21 H41 O6 P

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

## 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

L42 ANSWER 61 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 252858-11-0 REGISTRY

CN Phosphonic acid, [6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]hexyl]-, diethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

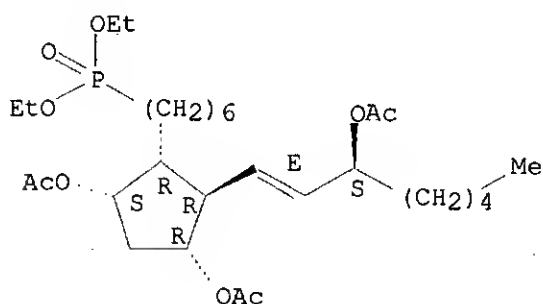
MF C29 H51 O9 P

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

L42 ANSWER 62 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 77493-13-1 REGISTRY

CN Phosphonic acid, [(9.alpha.,11.alpha.,13E,15S)-9,11,15-tris[(tetrahydro-2H-pyran-2-yl)oxy]prost-13-en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propane, phosphonic acid deriv.

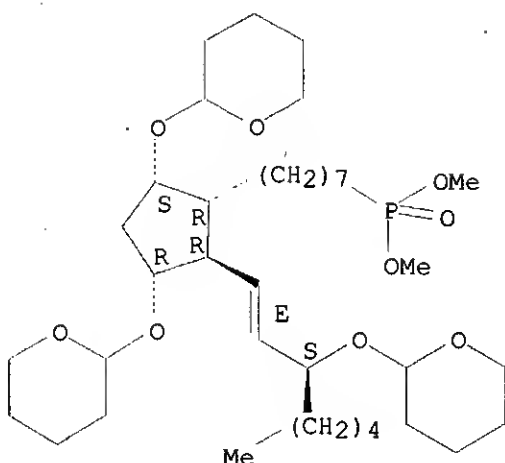
FS STEREOSEARCH

MF C37 H67 O9 P

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:191740

L42 ANSWER 63 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 72489-45-3 REGISTRY

CN Phosphonic acid, [(9.beta.,11.alpha.,13E,15S)-9,11,15-trihydroxyprost-13-en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Prostane, phosphonic acid deriv.

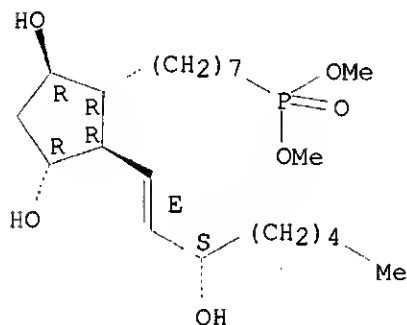
FS STEREOSEARCH

MF C22 H43 O6 P

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

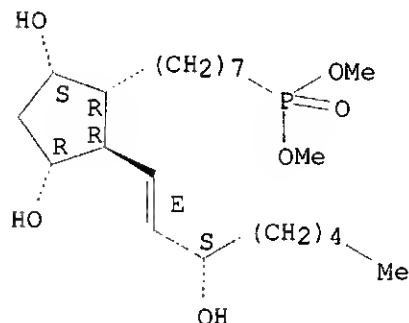
REFERENCE 1: 94:191740

REFERENCE 2: 92:58302

L42 ANSWER 64 OF 64 REGISTRY COPYRIGHT 2002 ACS

RN 72488-21-2 REGISTRY  
 CN Phosphonic acid, [(9.alpha.,11.alpha.,13E,15S)-9,11,15-trihydroxyprost-13-en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Prostane, phosphonic acid deriv.  
 FS STEREOSEARCH  
 MF C22 H43 O6 P  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

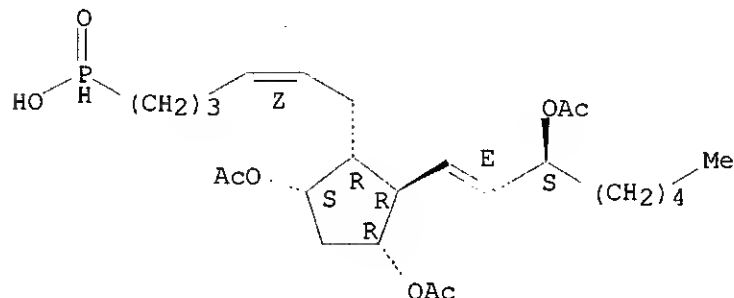
REFERENCE 1: 94:191740

REFERENCE 2: 92:58302

=> d ide can tot 143

L43 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2002 ACS  
 RN 380153-44-6 REGISTRY  
 CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C25 H41 O8 P  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
 Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L43 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 380153-43-5 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]butyl-, ethyl ester (9CI)

(CA INDEX NAME)

FS STEREOSEARCH

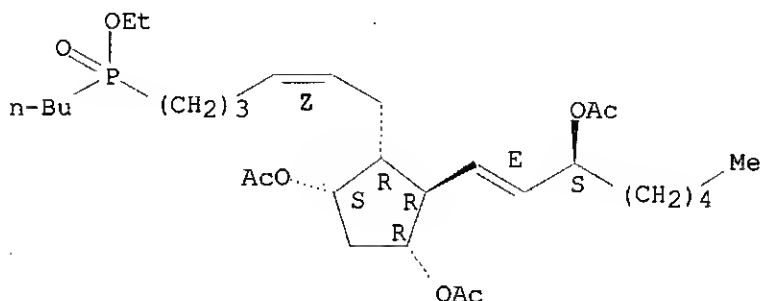
MF C31 H53 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



These 8 compounds  
FYI - included  
in references  
1-7.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L43 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 380153-42-4 REGISTRY

CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]ethyl-, ethyl ester (9CI)

(CA INDEX NAME)

FS STEREOSEARCH

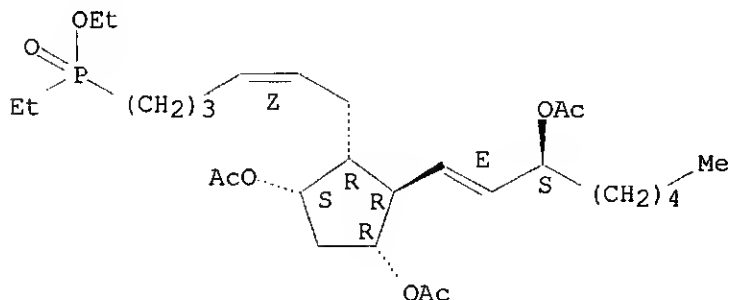
MF C29 H49 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

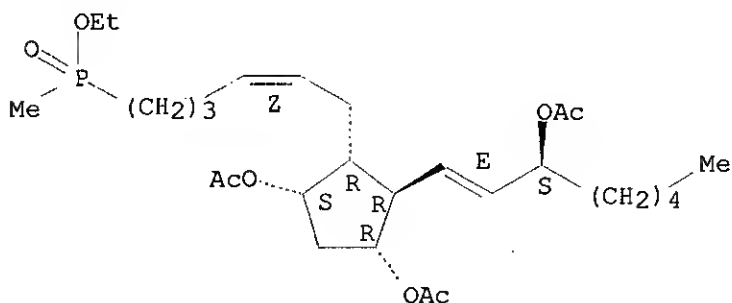


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L43 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2002 ACS  
RN 380153-41-3 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]methyl-, ethyl ester (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C28 H47 O8 P  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.



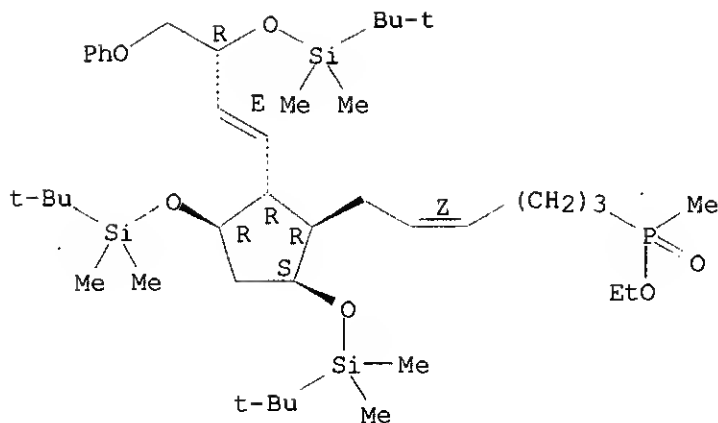
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L43 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2002 ACS  
RN 380153-32-2 REGISTRY  
CN Phosphinic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[(1E,3R)-3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-phenoxy-1-butenyl]cyclopentyl]-4-hexenyl]methyl-, ethyl ester (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C42 H79 O6 P Si3  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:31838

L43 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 252858-14-3 REGISTRY

CN Phosphonic acid, [(4Z)-6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]-4-hexenyl]-, diethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

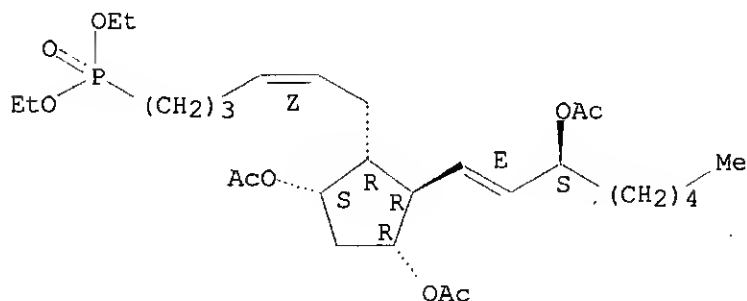
MF C29 H49 O9 P

SR CA

LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

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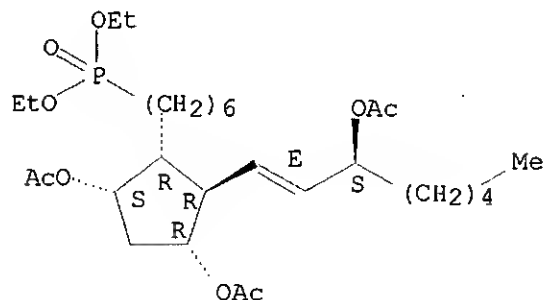
RN 252858-11-0 REGISTRY

CN Phosphonic acid, [6-[(1R,2R,3R,5S)-3,5-bis(acetyloxy)-2-[(1E,3S)-3-(acetyloxy)-1-octenyl]cyclopentyl]hexyl]-, diethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C29 H51 O9 P  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.  
 Double bond geometry as shown.



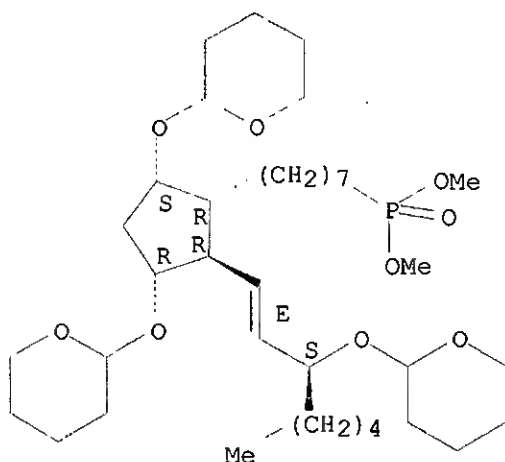
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:49813

L43 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2002 ACS  
 RN 77493-13-1 REGISTRY  
 CN Phosphonic acid, [(9.alpha.,11.alpha.,13E,15S)-9,11,15-tris[(tetrahydro-2H-pyran-2-yl)oxy]prost-13-en-1-yl]-, dimethyl ester (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Prostate, phosphonic acid deriv.  
 FS STEREOSEARCH  
 MF C37 H67 O9 P  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:191740